ECS Configuration Change Request

1. Originator Lou Swentek	2. Log Date: **7/11/02**	3. CCR #: **02-0577**	4. Rev: —	5. Tel: 301-925-0437	6. Rm #: 3008H	7. Dept. DEV/SWIT

8. CCR Title: Patch_ 6A.06_DDIST.02A. Patch is being revised for delivery of the updated patch to all DAACs. Original CCR for DDIST.02 (#02-0540) was sent to EDC DAAC Only. Contains fix for 1 Sev 2 NCR, 4 Sev 3 NCRs, and 1 Sev 5 NCR.

9. Originator Signature/Date **Louis Swentek /s/ 7/10/02**	10. Class **II**	11. Type: **CCR**	12. Need Date: 11July02

13. Office Manager Signature/Date **Arthur Cohen /s/ 7/11/02**	14. Category of Change: Initial ECS Baseline Doc.	15. Priority: (If "Emergency" fill in Block 27). Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:DDIST

19. Release Affected by this Change: 6A	20. Date due to Customer: 10July02	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
33933, 34076, 34141, 34346, 34586, 34695

23. Problem: (use additional Sheets if necessary)
Main operational fix: Fixes the slow DDIST warm start problem (NCR 34141).

A complete list of NCRs resolved by this patch is provided on page 3.

24. Proposed Solution: (use additional sheets if necessary)
For EDC DAAC only , Patch_6A.06_DDIST.02A supersedes Patch_6A.06_DDIST.02. Tarfile was made on July 8, 2002
CCR is being revised for delivery of the updated patch to all DAACs. Original CCR 02-0540 for DDIST.02 was sent to EDC DAAC on June 28, 2002.

25. Alternate Solution: (use additional sheets if necessary)
Delay testing; wait until next full system delivery.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
6A.06 will not have the fixes indicated.

27. Justification for Emergency (If Block 15 is "Emergency"):
Possible delays in 6A.06 operational testing.

28. Site(s) Affected: ☐EDF ☒PVC ☒VATC ☒EDC ☒GSFC ☒LaRC ☒NSIDC ☐SMC ☐AK ☐JPL
☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): **Randall J. Miller /s/ 7/11/02**	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB
33. M&O CCB Chair (Sign/Date): **Pamela Johnson /s/ 7/11/02**	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #: 02-0577 Rev: — Originator: Lou Swentek

Telephone: 301-925-0437 **Office:** 3008H

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Actions

Please make the following set of tar files to deliver Patch_6A.06_DDIST.02A.

One SUN (sun5.5) tar file with the following packages:

.EcDsDdDISTSRVR.pkg
.EcDsDdDdistGUI.pkg

One SOL8 (sun5.8) tar file with the following packages:

.EcDsDdDISTSRVR.pkg
.EcDsDdDdistGUI.pkg

One IRIX65 (irix65) tar file with the following packages:

.EcDsStDatabase.pkg

DAAC Install Instructions

1. Create three subdirectories in the Staging/Distribution area. One subdirectory named SUN, one named SOL8, and one named IRIX65.

2. Copy all the files with sun5.5 in their name to the SUN subdirectory. Copy all the files with sun5.8 in their name to the SOL8 directory. Copy all the files with irix65 in their name to the IRIX65 directory.

3. cd <staging_area>/SUN/

4.   UNTAR the files and copy to the staging area using the Setup.ksh file. Be sure to select "N" when prompted for "Update ECS Assist Common Files".

5. cd <staging_area>/SOL8

6.   UNTAR the files and copy to the staging area using the Setup.ksh file. Be sure to select "N" when prompted for "Update ECS Assist Common Files".

7. cd <staging_area>/IRIX65

8. UNTAR the files and copy to the staging area using the Setup.ksh file. Be sure to select "N" when prompted for "Update ECS Assist Common Files".

9. If STMGT.02 is not being installed at the same time, edit the STMGT .cfgpatch (< staging_area>/IRIX65/CUSTOM/.installed/DSS/stmgt/.cfgpatch) to change the db patch level from 6229 to 6223 so that patch 6229 is not installed at this time.

Note:

Database Patch 6211 - Add DTF server.
Database Patch 6223 - Add four new error mnemonics in STMGT tables

Database Patch 6229 - Correcting Event Logging identifers for STMGT GUI.

10. On a SUN host, use E.A.S.I. to perform automated installation of all three packages listed.

11. On the host, xxacgxx, where the STMGT Database package (.EcDsStDatabase.pkg) is installed, bring up Ecs Assist Subsystem Manager and patch the database to patch level 6223 (6229 if STMGT.02 is being installed at the same time).

NCR List:

GSFC NCR:
ECSed34076 Sev 3 Distribution Server virtual memory usage.

LaRC NCR:
ECSed33933 Sev 3 Update default refresh rate in Distribution GUI from 30 to 300 seconds

EDC NCRs:
ECSed34141 Sev 2 OPS:6A.05:SA:EcDsDistributionServer took 43 minutes to start
ECSed34346 Sev 5 OPS:6A.05C1:DDIST:Partial Distribution for billable product

EDF NCR:
ECSed34586 Sev 3 Patch 6223 needs less data checking for EDF practiaclity.

PVC NCR:
ECSed34695 Sev 3 Order ID not shown in the DDIST GUI

Important Release Notes

For ECSed34346, as designed by system architecture and Cory Von Batavia, The Distribution server will suspend requests incoming to DDIST which already have one or more granules failed by SDSRV. These requests will be suspended with a unique mnemonic that will appear in the DDIST gui and indicated a partial order in SDSRV.

For ECSed34141, lazy recovery for DDIST warm start was implemented. During warm start, request file information is not read by the DDIST server until it needs it, and as a result, warm start will be faster.   Since warm start time will now be independent of the number of granules and files, EDC can see a warm start for DDIST server that sometimes will be an order of magnitude faster than before.

For ECSed34076, A few memory leaks were plugged. Recently most full production days at EDC had the DDIST virtual memory footprint grow by about 200 - 400 Megs per 24 hrs. This growth rate should be significantly reduced.

Test Report:
Attached.